

# Voroxor w/Residuals Preplant Burndown

## Arlington, WI 2024

### Trial Information

Trial Sponsor: BASF

Objective: Evaluate the performance of \*Voroxor tank mixed with residuals compared to other commercial standards for preplant burndown control of winter annuals

Crop: Soybean

Hybrid: XO 2444E

Weed species (pressure): dandelion (moderate)  
glyphosate-resistant marestail (moderate-high)  
shepherd's purse (low-moderate)

Herbicide Application(s): Preplant – 4/24

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\***Voroxor** is a new herbicide offering from BASF containing two group 14 active ingredients, saflufenacil and trifludimoxazin. **Voraxor is not registered for commercial use in the United States at the time of this publication.**

For the full report see trial #24-ARL-SB10 in the [2024 Wisconsin Weed Science Research Report](#)



# Voroxor w/Residuals Preplant Burndown (Arlington, WI 2024)

Trt #	Herbicide (rate acre <sup>-1</sup> )	Dandelion (%)				Marestail (%)				Shepherd's Purse (%)			
		2 DAT	7 DAT	15 DAT	28 DAT	2 DAT	7 DAT	15 DAT	28 DAT	7 DAT	15 DAT	28 DAT	
1	Untreated Check	0	0	0	0	0	0	0	0	0	0	0	
<b>One-Pass – Preplant Burndown (4/24)</b>													
2	Roundup PM3 (22 oz) + Enlist One (2 pt) + Zidua SC (3.25 fl oz) + COC <sup>b</sup> + AMS <sup>c</sup>	11	55	78	81	15	81	93	95	56	82	98	
3	Roundup PM3 (22 oz) + Voraxor (1.4 oz) + Zidua SC (3.25 fl oz) + MSO <sup>d</sup> + AMS <sup>c</sup>	44	99	88	36	44	100	100	94	72	93	85	
4	Roundup PM3 (22 oz) + Enlist One (2 pt) + Voraxor (1.4 oz) + Zidua SC (3.25 fl oz) + MSO <sup>d</sup> + AMS <sup>c</sup>	55	100	100	100	53	99	100	100	71	93	95	
5	Roundup PM3 (22 oz) + Boundary (1.5 pt) + COC <sup>b</sup> + AMS <sup>c</sup>	6	23	72	84	6	41	65	59	27	84	88	
6	RU PM3 (22 oz) + Boundary (1.5 pt) + Voraxor (1.4 oz) + Zidua SC (3.25 fl oz) + MSO <sup>d</sup> + AMS <sup>c</sup>	52	99	81	21	53	100	100	98	72	93	87	
7	Roundup PM3 (22 oz) + Matador-S (3 pt) + COC <sup>b</sup> + AMS <sup>c</sup>	1	29	75	78	8	38	61	43	15	70	78	
8	Roundup PM3 (22 oz) + Matador-S (3 pt) + Voraxor (1.4 oz) + MSO <sup>d</sup> + AMS <sup>c</sup>	60	99	97	73	59	100	100	98	64	93	89	
		LSD ( $\alpha=0.10$ )	8	10	7	7	8	3	11	7	15	12	ns
		p value	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.001	0.030	0.436

<sup>a</sup>Visual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

<sup>b</sup>COC=Agri-Dex, applied at 1% v/v

<sup>c</sup>AMS=AMSO/Dry, applied at 8.5 lb/100 gal

<sup>d</sup>MSO=Upland MSO, applied at 1% v/v

# Weed Size Day of Preplant Burndown Application



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# Weed Size Day of Preplant Burndown Application



# Voroxor w/Residuals Preplant Burndown Arlington, WI 2024

Plot pictures taken on 5/1  
7 days after the preplant burndown  
application

The numbers in the upper right-hand corner are the average % dandelion and marestail control of 4 replications

7 days after Preplant Burndown (5/1)

0%

Untreated Check



7 days after Preplant Burndown (5/1)

Preplant: 22 oz Roundup PowerMAX3 + 2 pt Enlist One +  
3.25 oz Zidua SC + COC + AMS

Dandelion = 55%  
Marestail = 81%



7 days after Preplant Burndown (5/1)

Preplant: 22 oz Roundup PowerMAX3 + 1.4 oz Voroxor +  
3.25 oz Zidua SC + MSO + AMS

Dandelion = 99%  
Marestail = 100%



7 days after Preplant Burndown (5/1)

Preplant: 22 oz Roundup PowerMAX3 + 2 pt Enlist One +  
1.4 oz Voroxor + 3.25 oz Zidua SC + MSO + AMS

Dandelion = 100%

Marestail = 99%



7 days after Preplant Burndown (5/1)

Preplant: 22 oz Roundup PowerMAX3 + 1.5 pt Boundary +  
COC + AMS

Dandelion = 23%  
Marestail = 41%



7 days after Preplant Burndown (5/1)

Preplant: 22 oz Roundup PowerMAX3 + 1.5 pt Boundary +  
1.4 oz Voroxor + 3.25 oz Zidua SC + MSO + AMS

Dandelion = 99%  
Marestail = 100%



7 days after Preplant Burndown (5/1)

Preplant: 22 oz Roundup PowerMAX3 + 3 pt Matador-S +  
COC + AMS

Dandelion = 29%  
Marestail = 38%



7 days after Preplant Burndown (5/1)

Preplant: 22 oz Roundup PowerMAX3 + 3 pt Matador-S +  
1.4 oz Voroxor + MSO + AMS

Dandelion = 99%  
Marestail = 100%



# Voroxor w/Residuals Preplant Burndown Arlington, WI 2024

Plot pictures taken on 5/9  
15 days after the preplant burndown  
application

The numbers in the upper right-hand corner are the average % dandelion and marestail control of 4 replications

# 15 days after Preplant Burndown (5/9)

## Untreated Check

0%



15 days after Preplant Burndown (5/9)

Preplant: 22 oz Roundup PowerMAX3 + 2 pt Enlist One +  
3.25 oz Zidua SC + COC + AMS

Dandelion = 78%

Marestail = 93%



15 days after Preplant Burndown (5/9)

Preplant: 22 oz Roundup PowerMAX3 + 1.4 oz Voroxor +

3.25 oz Zidua SC + MSO + AMS

Dandelion = 88%

Marestail = 100%



15 days after Preplant Burndown (5/9)

Preplant: 22 oz Roundup PowerMAX3 + 2 pt Enlist One +  
1.4 oz Voroxor + 3.25 oz Zidua SC + MSO + AMS

Dandelion = 100%  
Marestail = 100%



15 days after Preplant Burndown (5/9)

Preplant: 22 oz Roundup PowerMAX3 + 1.5 pt Boundary +  
COC + AMS

Dandelion = 72%  
Marestail = 65%



**15 days after Preplant Burndown (5/9)**

**Preplant: 22 oz Roundup PowerMAX3 + 1.5 pt Boundary +  
1.4 oz Voroxor + 3.25 oz Zidua SC + MSO + AMS**

**Dandelion = 81%  
Marestail = 100%**



15 days after Preplant Burndown (5/9)

Preplant: 22 oz Roundup PowerMAX3 + 3 pt Matador-S +  
COC + AMS

Dandelion = 75%

Marestail = 61%



**15 days after Preplant Burndown (5/9)**

**Preplant: 22 oz Roundup PowerMAX3 + 3 pt Matador-S +  
1.4 oz Voroxor + MSO + AMS**

**Dandelion = 97%**

**Marestail = 100%**



# Voroxor w/Residuals Preplant Burndown Arlington, WI 2024

Plot pictures taken on 5/22  
28 days after the preplant burndown  
application

The numbers in the upper right-hand corner are the average % dandelion and marestail control of 4 replications

**28 days after Preplant Burndown (5/22)**

**0%**

**Untreated Check**



28 days after Preplant Burndown (5/22)

Preplant: 22 oz Roundup PowerMAX3 + 2 pt Enlist One +  
3.25 oz Zidua SC + COC + AMS

Dandelion = 81%  
Marestail = 95%



**28 days after Preplant Burndown (5/22)**

**Preplant: 22 oz Roundup PowerMAX3 + 1.4 oz Voroxor +  
3.25 oz Zidua SC + MSO + AMS**

**Dandelion = 36%  
Marestail = 94%**



28 days after Preplant Burndown (5/22)

Preplant: 22 oz Roundup PowerMAX3 + 2 pt Enlist One +  
1.4 oz Voroxor + 3.25 oz Zidua SC + MSO + AMS

Dandelion = 100%  
Marestail = 100%



28 days after Preplant Burndown (5/22)

Preplant: 22 oz Roundup PowerMAX3 + 1.5 pt Boundary +  
COC + AMS

Dandelion = 84%  
Marestail = 59%



28 days after Preplant Burndown (5/22)

Preplant: 22 oz Roundup PowerMAX3 + 1.5 pt Boundary +  
1.4 oz Voroxor + 3.25 oz Zidua SC + MSO + AMS

Dandelion = 21%  
Marestail = 98%



28 days after Preplant Burndown (5/22)

Preplant: 22 oz Roundup PowerMAX3 + 3 pt Matador-S +  
COC + AMS

Dandelion = 78%  
Marestail = 43%



28 days after Preplant Burndown (5/22)

Preplant: 22 oz Roundup PowerMAX3 + 3 pt Matador-S +  
1.4 oz Voroxor + MSO + AMS

Dandelion = 73%  
Marestail = 98%

